

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended). A synthetic resin retainer comprising an annular member made of a synthetic resin and formed with a plurality of pockets to receive balls, said pockets having being cylindrical inner surfaces, wherein a pair of conical guide surfaces to be guided by said balls are formed on the cylindrical inner surface of each said each-pocket at an inner-diameter end thereof so as to oppose each other in the circumferential direction of the retainer, and wherein the radius of curvature of each said each-conical guide surface at a large-diameter end thereof is larger than the radius of curvature of the cylindrical inner surface of each said each-pocket.

Claim 2 (Currently Amended). A synthetic resin retainer as claimed in claim 1 wherein in the cylindrical inner surface of each said each-pocket, diametric grooves are formed so as to divide said cylindrical inner surface into four parts comprising a pair of arcuate inner surfaces opposing each other in the circumferential direction of the retainer, and a pair of arcuate inner surfaces opposing each other in the axial direction of the retainer.

Claim 3 (Currently Amended). A synthetic resin retainer comprising an annular member made of a synthetic resin and formed with a plurality of pockets to receive balls, said pockets having being cylindrical inner surfaces, wherein a pair of conical surfaces are formed on the cylindrical inner surface of each said each-pocket at an inner-diameter end thereof so as to oppose each other in the circumferential direction of the retainer, wherein a lubricant retaining surface is integrally formed from the inner-diameter end of each said each-conical surface inwardly of the pocket, and wherein a linear ball guide edge to be guided by a ball is formed inside each said each-lubricant retaining supporting surface so as to be parallel to the axis of the retainer.

Claim 4 (Currently Amended). A synthetic resin retainer as claimed in claim 3 wherein in the cylindrical inner surface of each said each-pocket, diametric grooves are formed so as to divide said cylindrical inner surface into four parts comprising a

pair of arcuate inner surfaces opposing each other in the circumferential direction of the retainer, and a pair of arcuate inner surfaces opposing each other in the axial direction of the retainer.

Claim 5 (Currently Amended). An angular ball bearing comprising a synthetic resin retainer mounted between an outer ring and an inner ring, and balls mounted in a plurality of pockets formed spaced circumferentially from each other in said retainer to support said outer ring and said inner ring so as to be rotatable relative to each other, wherein said pockets have are cylindrical inner surfaces, wherein in the cylindrical inner surface of said each pocket, diametric grooves are formed so as to divide said cylindrical inner surface into four parts comprising a pair of arcuate inner surfaces opposing each other in the circumferential direction of the retainer, and a pair of arcuate inner surfaces opposing each other in the axial direction of the retainer, wherein a pair of conical guide surfaces to be guided by said balls are formed on the cylindrical inner surface of each said each pocket at an inner-diameter end thereof so as to oppose each other in the circumferential direction of the retainer, and wherein the radius of curvature of said each conical guide surface at a large-diameter end thereof is larger than the radius of curvature of the cylindrical inner surface of each said each pocket.

Claim 6 (Currently Amended). An angular ball bearing comprising a synthetic resin retainer mounted between an outer ring and an inner ring, and balls mounted in a plurality of pockets formed spaced circumferentially from each other in said retainer for supporting said outer ring and said inner ring so as to be rotatable relative to each other, wherein said pockets have are cylindrical inner surfaces, wherein in the cylindrical inner surface of each said each pocket, diametric grooves are formed so as to divide said cylindrical inner surface into four parts comprising a pair of arcuate inner surfaces opposing each other in the circumferential direction of the retainer, and a pair of arcuate inner surfaces opposing each other in the axial direction of the retainer, wherein a pair of conical surfaces are formed on the cylindrical inner surface of said each pocket at an inner-diameter end thereof so as

to oppose each other in the circumferential direction of the retainer, wherein a lubricant retaining surface is integrally formed from the inner-diameter end of each said ~~each~~ conical surface inwardly of the pocket, and wherein a linear ball guide edge to be guided by a ball is formed inside each said ~~each~~ lubricant retaining ~~supporting~~ surface so as to be parallel to the axis of the retainer.